UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



⇔EPA United States Environmental Protection Office of Pesticide Programs Office of Pesticide Programs

Antimicrobials Division (AD)

April 21, 2014.

EPA Reg#: 4822-594				DP Barcode:419496							
				Sub	Submission #: 950725						
Product name: Valhalla				Registrant: (company name)							
Reviewer's name: Salvador Rodriguez											
Agency due date: 06/03/14					PSB received date: 04/16/14						
CTT received date: 04/16/14					Science due date: 04/19/14						
Formulation type: EUP											
Integrated system: [] Non i			ntegrated system:[X] Food use: N				Non food use: [X]				
Action Code: 3	362		Date Completed: April 21, 2014								
PC Code(s)	PC Code(s) CAS #(s)		j.	Activ	% wt (label)						
069105					nethyl benzy e *(50%C14 10%C16	0.096					
069165	35426-	1-Ded	1-Decanaminium, N,N-dimethyl-N- octyl-, chloride			0.072					
069166	069166 5538-94-3 1-Octanaminium, N,N- 0.036										
			dimethyl-N-octyl-, chloride								
069149	7173-51-5 1-De				aminium, N methyl-, chl	0.036					
H ₃ C CH ₃											
N CH ₃											
CI ⁻											
Test Lab: S.C.Johnson & Son, Inc.											
MRID(s): 49333300 & 49333301.											
	Approver: Karen P. Hicks Approved date: April 21, 2014										
Guideline: OPPTS Guideline, 830 series 830.6317 "Storage Stability" & 830.6320											
"Corrosion Characteristics".											
Comments:											

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Antimicrobials Division (AD)

April 21, 2014

MEMORANDUM

SUBJECT: Product Chemistry Review for EPA File Symbol. 4822-594

Product Name: **Valhalla** DP Barcode: 419496

CODE: 362

DATE DUE: 06/03/14

FROM: Salvador Rodriguez, Chemist

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510P)

THRU: Karen Hicks, Team Leader

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510P)

TO: Velma Noble PM#31/Emilia Oiguenblik

Regulatory Management Branch II Antimicrobials Division (7510P)

Applicant: S.C. Johnson & Son, Inc.

PRODUCT FORMULATION FROM LABEL:

Active Ingredient(s):	<u>% by wt.</u>
Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16)	0.096
1-Decanaminium, N,N-dimethyl-N-octyl-, chloride	0.072
1-Octanaminium, N,N-dimethyl-N-octyl-, chloride	0.036
1-Decanaminium, N-decyl-N,N-dimethyl-, chloride	0.036

BACKGROUND:

The Registrant, S.C. Johnson & Son, Inc has submitted the OPPTS 830.6317 & 830.6320 guidelines, for the disinfectant, sanitizer, bacteriocide, virucide, non-integrated, non food-use, end-use product, **Valhalla**. The product chemistry reviewer has reviewed the following documents:

- Confidential Statements of Formula, dated 12/07/12, for the basic formulations. (Reference)
- Transmittal document, dated 03/04/14. MRID #: 49333300.
- Statement of Compliance < dated 03/11/12.
- •Study Titled: "24-Month Storage Stability OPPTS 830.6317 & Corrosion Characteristics 830.6320". MRID #: 49333301

FINDINGS:

- 1. The OPPTS 830.6317 & 830.6320 guidelines Group B product chemistry data requirements applicable to end-use products have been met. The test substance was stored for two years at (18 27°C) in a non-climate controlled warehouse. Data obtained in this study verifies that the test substance is stable for a period of at least two years. MRID #: 49333301.
- 2. The results of the long-term storage and corrosion characteristics of the test material have been determined. The study is in accordance with the requirements of the US EPA, Office of Prevention, Pesticides and Toxic Substances, Series 830: Products Properties Test Guidelines OPPTS 830.6317 & 830.6320.
- 3. After 24 months at (18 27°C), no pitting, no thinning, no warping, no change in color, no cracks holes or mottling were noted for the commercial packaging material. Upon mechanical deformation, neither the container nor the closure cracked or split. In conclusion there was no significant change in the active ingredient content of the test material during the 12 months storage.

Quaternary surfactant content (% w/w)

Test item replicate (#)	Initial	3 6 9 (Months)		_	1 2
1	0.215	0.234	0.241	0.246	0.236
2	0.210	0.232	0.246	0.238	0.236
3	0.211	0.237	0.232	0.238	0.233
4	0.206	0.238	0.246	0.232	0.239
5	0.209	0.241	0.244	0.235	0.235
6	0.214	0.239	0.245	0.234	0.239
Overall Mean:	0.211	0.237	0.242	0.237	0.239

CONCLUSIONS:

The Product Science Branch of Antimicrobials finds the OPPTS Guideline Series 830.6317 & 830.6320 Group B product chemistry data requirements applicable for non-integrated, non food-use, end-use product **EPARN: 4822-594** to be acceptable. The results of the "One Year Storage Stability and Corrosion Characteristics" studies indicate that the concentration of the active ingredients (AI), are within the EPA Standard Certified Limits.